Docket No. 46745 (1758)

## IN THE UNITED STATES PATENT AND TRADEMARK\_OFFICE

APPLICANT:

J. Weidanz, et al

SERIAL NO .:

08/813,781

DEC 27 1999

EXAMINER: M. Lubet

FILED:

March 7,

GROUP:

1644

FOR:

FUSION PROTEINS COMPRISING BACTERIOPHAGE COAT

PROTEIN AND A SINGLE-CHAIN T CELL RECEPTOR

THE HONORABLE COMMISSIONER OF PATENTS AND TRADEMARKS WASHINGTON, DC 20231

SIR:

## DECLARATION PURSUANT TO 37 CFR 1.131

The undersigned declare as follows:

- 1. We are co-inventors of the above-identified application (hereafter the "subject application"). Jon A. Weidanz and Hing Wong are Senior Scientists with Sunol Molecular Corporation, Miramar Florida. Hing Wong is currently President and CEO of that corporation.
- 2. As we understand it, the subject application discloses and claims, among other things, fusion proteins in which bacteriophage coat protein is covalently linked (ie. fused) to a soluble single-chain T-cell receptor. As one example, the subject application discloses and claims, a single-chain T-cell receptor linked to a bacteriophage VIII coat protein ("single chain fusion protein").
- 3. We have reviewed the Patent Office Action ("Office Action") dated June 23, 1999 issued in connection with the subject application. As we understand the Office Action, the patent Examiner rejected claims 1, 2, 4, 7-8, 14, 18, 19, 20, 61 and 67 as obvious in view of WO 96/18105 ("Strominger") taken with other references

cited in the Office Action. We understand that Strominger is a PCT application having an issue date of 13 June 1996.

- 4. We have read Strominger. As we understand it, Strominger discloses a specific single-chain T-cell receptor that binds to an MHC peptide ligand.
- 5. The invention described and claimed in the subject application was conceived and reduced to practice in the United States prior to June 1996.
- 6. For example, well before June 1996, we recognized that it was possible to make a recombinant T-cell receptor (TCR) protein in which a V-alpha chain was fused to a V-beta C-beta chain by a peptide linker sequence. It was also recognized before the June 1996 date that a bacteriophage coat protein could be fused to the V-beta C-beta chain to produce the single-chain fusion protein. As understood, use of the bacteriophage gene VIII coat protein could substantially improve features of the fusion protein. As disclosed throughout the subject application, that recognition helped us make and use the single-chain fusion protein.
- 7. The claimed single-chain fusion protein was made in the United States well before Strominger's June 1996 publication date.
- 8. For example, conception of the single-chain fusion protein was accomplished well before Strominger's publication date. Attached as **Exhibit 1** is a true and accurate copy, with dates deleted, of notes made by one of us before June 1996. For example, see pages 1 and 2 of the notes in which is shown, among other things, drawings of single-chain fusion protein. Also indicated in the notes, among other things, are steps for making vector encoding peptide linker sequence fused to the bacteriophage gene VIII protein. The vector is referred to as pKC27. Construction and use of the pKC27 vector is further exemplified by the subject application. For

instance, see Example 2 and particularly part E which discloses work performed well before the June 1996 date. See also Figure 2 of the application (outlining production of pKC27 and other vectors).

- 9. One of us prepared sequence encoding TCR V-alpha chain well before Strominger's June 1996 publication date. Attached as **Exhibit 2** is a true and accurate copy of notes, with dates deleted, prepared by one of us well before that date. The notes show, among other things, successful production of sequence encoding the V-alpha chain. These manipulations were performed well before the June 1996 date and are described throughout the subject application, for instance, see Example 1.
- fused sequence encoding the V-alpha chain into the pKC27 vector. That manipulation led to production of pKC42 vector. The pKC42 vector particularly encodes sequence in which the V-alpha chain is fused to the peptide linker. That linker is fused to the bacteriophage gene VIII protein. Attached as **Exhibit 3** is a true and accurate copy of notes made by one of us, with dates deleted, describing steps taken to make the pKC42 vector among other things. These steps were undertaken well before the June 1996 date and are further exemplified in the subject application. For instance, see Example 2 and particularly section E. See also Figure 2 of the subject application (outlining production of pKC42 from the pKC27 vector).
- 11. We made vectors that encode the TCR V-beta C-beta chain well before Strominger's June 1996 publication date. Attached as **Exhibit 4** is a true and accurate copy of notes made by one of us, with dates deleted, that shows, among other things, steps taken to make pKC30 vector. These manipulations were conducted well before the June 1996 date and are further exemplified in the subject application. See Figure 2, for example.

- 12. In experiments performed well before Strominger's June 1996 publication date, we made vectors that encode the V-beta C-beta chain fused to the bacteriophage gene VIII protein. Attached as **Exhibit 5** is a true and accurate copy of a note made by one of us, with dates deleted, which shows, among other things, manipulation of a vector called pKC34.3. The pKC34.3 vector is a specific isolate of pKC34 and it is further exemplified in Figure 2 of the subject application (see the step for making pKC44 from the pKC42). The note particularly describes treatment of pKC34.3 with restriction endonucleases to isolate a fragment encoding the V-beta C-beta chain fusion protein. Steps taken to make the pKC34.3 vector were performed well before the June 1996 date.
- sequence encoding the V-beta C-beta bacteriophage gene VIII fusion protein into the pKC42 vector. Attached as **Exhibit 6** is a true and accurate copy of notes made by one of us, with dates deleted, showing, among other things, production of the pKC44 vector (encodes single-chain fusion protein). In particular, pages 1-5 of the notes show manipulation of specific pKC42 vectors (42.1, 42.2, and 42.3) and use of those vectors as recipients of sequence encoding the V-beta C-beta bacteriophage gene VIII construct. These results are further exemplified by the subject application. For instance, see Example 2 and particularly section E. See also Figure 2 of the application (showing production of pKC44 from pKC42).
- 14. We made the single-chain fusion protein in the United States well before the June 1996 publication date of Strominger.
- 15. For example, attached as **Exhibit 7** is a true and accurate copy of notes made by one of us, with dates deleted, that shows, among other things, manufacture of the single-chain fusion protein well before Strominger's June 1996 date. In particular, pages 1-4 of the notes show expression of the single-chain fusion protein

encoded by pKC44 as evidenced by a Western Blot. Pages 5 and 6 of the notes show purification of that protein using an immuno-affinity column. These manipulations are further exemplified by the subject application. For instance, see Examples 4, 5, 6 and Figures 7-13 which disclose work performed well before June 1996.

16. We hereby further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Date:	Olay Oluay Olgo
	Hing C. Wong
Date: 12/1/99	Au. W
	Jon A. Weidanz
Date: 12 14 99	Kimberlyn J. Cayol Kimberlyn Card
	Kimberlyn Card

#130721

o. REFOL

Project

Project No. RE		
Book No. D-St T	TITLE PCR amplification A Doc	de Chair
	P. R. Alexander I. A. J.	
No.NA HEREN		
Objective To amplify out he	DOULD COLD and's TOR Chan	
The x drain will contain	meletine variable region in	oth Sti Tand
C SOT Nestriction Att	of cloning. The Acrain was	le contrin-tre
	it of the constant segion (	ending just
3 Variation for Ginal Cyptains	) was knot and mat rest	ziotan itta
		•
1 5 Lancesmine		
		150 +1
materialy method: PCR Juste		
macla re	e'd Dwittegaaada big	
Tommar	Ed CUSCA Grant 12	
pyCVIe.7	1:100) KOUS (3 back 1)	hymu <u>T</u> )
DKC18 = (	1:100	
- Carridaed		
Let up 10 reactions for anch	made 100 mal and then add	1 ton Juded mut
At up 10 sellations for allect		
in tremorgales once @ 910°C	attached: 4. l-sict.	
	The state of the s	-
4 /3	land 1 = ARSTETT	
100 lel hugges		
Soul macla	D= & DCR 1/10 Trx	
SOLD DIES	3= B PCQ (1/10 1 CX)	
1000 KCHI TOULK		
TOWN TWICE NOT I I DINK		
30.01		
755 worted 745 well	worted	
7.300		
+ +00 (05, ethere) "		
++11 0.30//140		
1 min.	Idmin	
40		RE701-0-801-62KC
2 73	72	
1mn.		
6D		Til vc
x 15 cycles	x 1 cycle	
0	9	To Page No. NA
Vitnessed & Understood by me, Date	Invented by	Date
Filliessed & Oliderstood by		- 1
	Recorded by	I. I
Control of the Contro		

						Pro	jec Iool	t N k N	o  o	KE 0-	e d		rit	LE	Pε	ه ا	<del>+</del> (	کنر	321	tis	ን	J-3		7	₽ <u>C</u>	R T	ΡΛσ	d <i>ui</i>	±ı			3
		0	NH NH	<b>\</b>	÷ ·																	1714	1.5	E .		i	1			-	y [6	$\overline{}$
	į		·	:										₹1 2	<b>1</b>		٠.					V 19		F		-	. · · ·					
	10		hi	ul:		4	~	ol	ac	Ч	di	iest	t-+	'nъ	ź	n.c	d	<u>م</u> :	<u></u>	رک ک	457	L F	cta	1	5-	02	200	rie.	y	ດ		
Ewill.						lie	1 I	1	ł.		7	5.		i		7	Í						ŀ	į.			1		1		Ľ.	
		,		F		1			-			- 4		å . 2. 1						ļ		<u>.</u> -	<u> </u>	-		:	-		ř. ·	- 1		
# Y	'n	1	al	1 x	Yln-	עובר	inl	<u>ار:</u>	الم	P	CQ.	1		-87		á		:					·			·	<u> </u>				ŀ.	
}   . <b>-</b>	7				ŀ		<u> </u>	<u> </u>	1/2	P	CR	<u>1</u>	٥.	87	1-	60									•		<u> </u>	<u> </u>				
								_	<u> </u>	ĠІ		ಎ೦	Ш	اليا									<u> </u>	<u> </u>			1		İ			
	-							_	يكا	تىلا	0	150	زك	با			-															
	. [			:					ای	ma	I (	D 1	٦	سرا	1						:		<u> </u>	Ï				1				
									141	בסב	6	20	Щ	اسا									<u> </u>									_
									1	SE	L	1:10	)(										<u> </u>									_
									B	4	121	1	΄,	·													-				.	_
	ŀ								B	ساسا	4	1	_															İ				
	$\perp$					<u> </u>			ا.رم	11/	].  -	ed	ωſ	ф	4									<u> </u>			<u> </u>					
									<u> </u>		<u> </u>	<u> </u>											<u> </u>	<u> </u>			ļ. 					
<u>-47</u>	لم	ha	d:			d_r	منلأ	6 17	년		<u> </u>						B	منا	201	<u> </u>			<u> </u>	<u> </u>								
			_		F	Ž., Ž	8	£.	<u> </u>								10:	٠١٠.	Kac	aI												
				<u> </u>	-			×02	<u>+</u>			<u> </u>					5	لگ	4h							· .	<u> </u>					
					ای	لسك	1 7	125		1	<u> </u>			<u> </u>			30	لنبأ	2	AZ				'			<u> </u>			İ		
					12	Lul	d	الملط	des	<u>a</u>							30	للبا	be	444	21	1_										
					13	بيك	0	عجه							<u> </u>		SÚ	لنبأ	<u>lu</u>	la <del>. L</del>	عر						<u> </u>					
				1	<u>  4</u>	سک	ي	I ICC	71/2	<u> </u>				<u> </u>						71/A							<u> </u>					
						12	40	لية	VI.	<u> </u>		ŀ						30	ىرن	0	-		<u> </u>	<u> </u>			<u> </u>					
						1	'			1					1				1	<u> </u>			<u> </u>									
						1													7								<u> </u>					
				1	بطل	कुन्य	à (	<u> </u>	343	ž	<u> </u>			<u> </u>	<u> </u>	<u> </u>		i	4	مط	إسا	<u>@</u>	13	₽°C			<u> </u>					_
				12	ba	سليلا	10	3	<u>نان،</u>	<u>c                                     </u>	1	<u> </u>					!	·	<u> </u>				<u> </u>									$\_ ig $
	1							1	<u> </u>	<u> </u>	<u> </u>	1	!	<u> </u>	<u> </u>			! !									<u> </u>				- !	
	-		,	Fle		$\perp \dot{u}$	عم	1	iat	ad.	(a)	105	°C	<u> </u>	ئے	<u>00</u>	mi	עם	iz	4							<u> </u>				-	
								ŀ						<u>'</u>									<u> </u>									
0	5	acl	يسا	lin	1:	Q:	العا	1	ارم	لجدة	<u>b</u> yn	hed	g	1	de	100	he	d.									<u> </u>				:	
					Ī_		ψ		1	<u> </u>	<u> </u>		!				<u> </u>		<u> </u>	<u> </u>			<u> </u>									
<u> </u>					+	1	<u> </u>	<u> </u>								<u> </u>	<u> </u>		<u> </u>				<u> </u>									
										1							_		<u> </u>	<u> </u>											į	
										!	.					_					_//										:	
										•							<u></u>		<u> </u>	1					_							لب
	İ														-												£_	To_	Pag	e No	<u>N</u>	A
ness					too	d by	me	,		Da	ite			Inv	ent	ed t	у				:				Da	te						
				•	•								-	Re	cor	ded	bу					- •	,									
																															÷.	

	-	t No. k No.			7	TITL	Εś	Ľ	1		X.	ŋ	Δ'n	'n	10	Ĉ.		OP	Len	T.		m		1	5
e NovilA			1.				-,- j.		- E		F 1	<u> </u>	- 4	ļ	ţ.	ļr:	1	in in	1	Table of	der de	14. 34 14. 17	E		170
						+				. 12					-		-		TEAC.	<b>K</b> [6]	r.	E :	ز بدورا	1	
01-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-		- O	~ .			- 1	-	<u>-</u> -		14		٠				i a a	1	•.			) A		1	3.33	
Objective I	- discourse				04			<i>- (</i>	9	<del>41</del>	16.4  _	LA		10.72	تعتا	<u> </u>	1	صا	20	ن ا	100	عدا	40	2	1: -5 1:
7		- Alex  -			υυ ±	<u> </u>	1. VIX	24	<i>a</i> 2	ш	<u> </u>				<del> </del>		<u> </u>		2 -				k . 1 L . 8	<u>.</u>	Part I
- A . I		<u>-</u>	<u> </u>		7	7. 1¢	<del></del>	. [	Λ		i i		<del>!</del> 	<u> -</u>	<u> </u>	<del> </del>	<u>k</u>  -				<u>!</u>		<u> </u>	-	
Materialy	r) ztos			201		110	بيم	ķ	ا م		<u>                                       </u>			<u> </u>	1	<del> </del>					Ī	<u> </u>	<u>k</u> 1	i ·	
											<u> </u>			1	<u>!</u> 	<del></del>	<u>!</u>		<b>₩</b>		-	<u>:                                     </u>	<u>;</u> [	:	<u> </u>
	<u> </u>			eav	Th.	+	_64	4	10:1	-	<del>                                     </del>				!	1	1				1	<u> </u>	<u>!                                      </u>	<u>l.</u> i	<u>;                                    </u>
400	ا ، ، ن				<u> </u>	+	<u></u>	ı _ li	[					<u>                                       </u>	<u> </u>	1	<u> </u>				<u> </u>	-	<u> </u>	<u>  ·</u>	!
Mojed: 20	2 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4					$\mu_{\rm i}$	במי	501	11	<del>-</del>	bed	m	ELI	rcl	لعا		$\cap$	_@	<u> </u>	16	1/1	<u>i                                      </u>	<u>  :</u>	!
		74.3C			$\dashv$	<u>a</u>		.	, c	- 1	!		<u></u>	<u>                                       </u>	1	<u>!</u> .					<u>i</u>		<u> </u>	<u> </u> 	
	5.4					<u>ت</u>			10	1111	<u>c.</u>			<u> </u>	! i	<u>i</u> !					<u>                                       </u>	!	1	! !	
	Dul	tot	المين	<u>                                     </u>	<del></del>	<u>!</u>	٩١	9 (	-				<u>3</u> C	mi	<u> -</u>	1		i	-			!	1	j .	<u> </u>
	! ! ! !		+	<u> </u>	<u> </u>		_					! <u>[</u>	<u> </u>	MI	<u>n.</u>	1					!	<u> </u>	<u> </u>	1	<u>.                                    </u>
Hached H	بعلهمة	chu	الم الم		-		- 1	\			<u>.</u>			- 			7 .	<u>nid</u>	. !			<u> </u>		<u> </u>	
	no of							<u>)                                    </u>							<u> </u>	1	30	°C	- 1		<u> </u>				
Wentto	المعمد	WIST 18		04/1	بصم	صعاه	للظ	cL	_	<u>i</u>						1			·				i		
RE-701-0-801-7	<u></u>		0	_	1		-  -	- !	1							ļ									
5 601-1	Ĭ		lag										- 1	1	,	200			- F			عد	$\mathcal{O}^{\mathcal{I}}$	L	
			1 1	=		;	1				>		-				2	27	بالط	إذ	0				
				<u>+</u> =								_4	5	ary.	1/	ر و							317		
			4	<u>+</u> با	nne	al	M.	له	LFR	يله		-			1					- !					
Julie wz	7		<u> </u>		+		+	- :											1						
			À	Ша	<u>nt</u>		Squ	M	بدو	土	لم	30	CS	nc		70	امط	1	110	m	pr	n/	لي		
	33		+5	DCI	4	0:	+	1	-	- !								_						_	
	110			١	<u> </u>			_	_	- 1		. 1								- 1					
		-	10	54	4	10:10	<u> Di=</u>	1			4 1	m								- !					
	3		+-!		+	<u> </u>	÷	+	3,	Ш	, <del>D</del>	201	PM	1	-		_		4	. :		_			
		<u> </u>	1-1	<u>_</u>	$\dashv$	<del>- ;</del>		- :				-						<u> </u>			1				_
		<u> </u>	العد	<u>ئے ہر</u>	}	×	ಎ¦್	र्क	$\underline{\underline{m}}$			108	X	102	P	1/4	4	- 1	-		1	!	!		
			<u> </u>	Pic			<u>:</u>	<u> </u>	با.			30	<u> </u>	8	مم	أبدأ	0		- !					<u> </u>	
				-		:		-		:		- !					- !	- !	- !		<u> </u>	- !	:	<u>;</u>	
		$\rightarrow$	=		- !	:	<u> </u>	!	i	<u>:</u>								- !				- !		- !	
		-		-	<u></u>	<u> </u>	$\dashv$	╛						_ !	.		-	. !		_		: !	!	· . !	
					_	- !-					<u></u>			!		_		- !		_		į		!	
	<u>:                                    </u>		! !			<u>:</u>		- !	<u> </u>										!		!				
· · · · · · · · · · · · · · · · · · ·	: ! !		1		-		- !				:			-			f	$\preceq$	<del>ر</del> ن-					. :	
			1		i	-		*:	:			-		_							To F	age	No	الا.د	A.
ssed & Understood	by me,		Dat	е		ļı	nve	nte	d by	•							1	Date	<b>e</b> .						
			Ŀ		•.	<u> </u>					<u> </u>										- 1				•

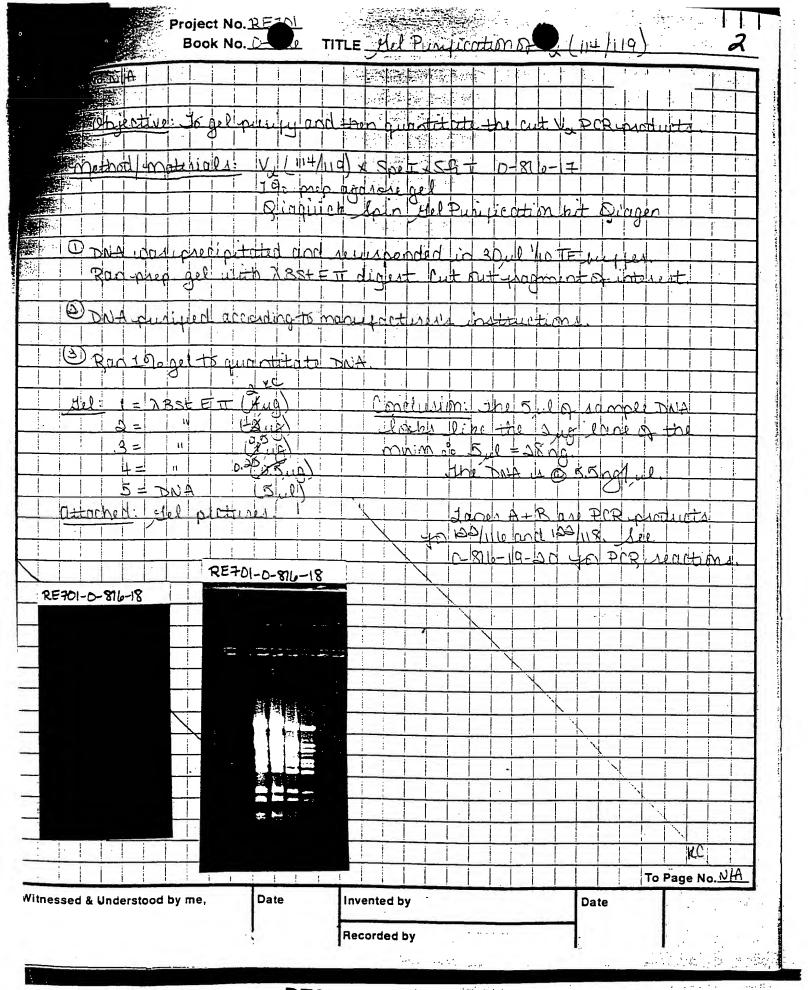
		ي الم		tis	ns	لت	io	bes	1	Ū	نا	IC.	5.1	4	Spe	I	Y Y	22	_	В	ool	4	9	- 3	DI	15 f 		i-se			ALC: U	<u>.</u>	- -
	, di	ge	No	<u>.V</u>	A.	1									=		-		78.5		-			*	<u>استوسن</u>						E- Opt	· P	
	10.7													ë								·	:·.		: :							1	_
.: <u>%</u>		) I	رند	cb	تعد	٠	15					e	ما	20-	4	βq	Jor	ce	عنا	\$15	PK	72	1	إحا	اعد		4	מב ‡	亡才	لتتأ	rode	<u>n</u>	_
	? -	<u> </u>	· :			-	he	1	na!	ام	<u>.</u>	<u> </u>	ضا	عفو	احا	ha	_طن	₽ P	14	þш	1				-					í			4
	.					<u> </u>	<u> </u>	<u> </u>				•		<u>p</u>	<u> </u>	1	<u> </u>	1.	<u> </u>	<u> </u>						:	-		<u> </u>		<u> </u>	- · }-	4
-	7	ا م	拉	न्त्री	4	itz	<u> Jin</u>	01:	ام ا	1019	<u>5. F</u>	4.5	مج	-	12r	عاد	-	<del>] -</del> 8	TIT	<u> </u>	7											[: 	_
	İ						<u> </u>	<u> </u>	i 1		1		1	عا	بعط	عله	<u> </u>	لمما	<u> </u>	<u> </u>	101-	7	D			- !		!		1	<u>. i.</u>	-  -	-
	1			<u> </u>		<u> </u>	<del> </del>	<u> </u>		F_	إنا	04	<u>   </u>		<del> </del>	<u> </u>	+	1	<u> </u>	<del> </del>	1	<u> </u> 			-				. [.				_
	1			<u> </u>		<u> </u>		<u> </u>	173			104	<u> </u>	سا	440	4	1	<del> </del>	<u> </u>	-	1								i	<u>i</u>	. <u>İ</u>	<u> </u>	-
	1.			<u> </u>	<u> </u>	<u> </u>	<del> </del>	<u> </u>	<u> </u>	سم	4	j. 4	ļu)	at:	4_	<u> </u>	+-	+ -	<u> </u>		1	<u> </u>						.	:		1	•	_
	1			<u> </u>	<u> </u>	ļ. 	<u> </u>	<u> </u>				<del> </del>	1	<u> </u>	1	1	<del> </del> -	<u> </u>	<u> </u>	1	<u> </u>	<u> </u>	:						. !			<u> </u>	-
	1		_1	let		4		<del>ļ</del> ķo			-	Rz	þε	r	بلط	الم	130	منيا	ملٰم	dt.	<del> </del> pb	الم	boo	المهيد	لصا	<u>. d</u>	لد (	200		نا	<u>-</u>		-
	1	Ы	عد	Le.				بكم		ì	<u> </u>		-	1	<u> </u>	-	+		<del>                                     </del>	HEC	1		<u> </u>	٥					!		1		_
	1			7	hΔ	لتملج	40	<u>بہ لا</u>	100	برد	1	لبا		1	<u>  V</u>	<u>ه ځ</u>	<del>†</del>  v	<u> </u> @		1	ځ۵ړ	199	111	Ł							!		-
	1			1 .	1	<u>                                     </u>	كط		-	<u> </u>	<u> </u>	<u> </u>		1		1 .	1	1	1 .	4 6	- A	<u> </u>				, .		!					_
	1		a	لكنالي	<del>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</del>	1	1	<u> </u>	·C	14	عد	12	اجز	1	zict	<u>છ:</u>		100	عبك	كلم	4	- =	<u>: 1</u> :	<u> 1</u>	->0		<u>ب</u>						$\dashv$
	1			$\perp$	40	<u>تھئل</u>	-	1	<del> </del>	<u> </u>		-		<u>'</u>	-	<u> </u>	<u> </u>	$\vdash$	!	1	<del>                                     </del>	1	<u> </u>					i 			<u> </u>	1	
	4		<u> </u>		<u> </u>	<u> </u>	11	<u>: D</u>		1	<u> </u>	:	1 3	- 7	1_	1	1	لك	1	<u> </u>	1	1	30				<u> </u> 						_
	الد	<u>ct</u>	9	<u> </u>			لسلا	الله	DC	<u>ـــــــــــــــــــــــــــــــــــــ</u>	<u> </u>		کا در	7	וְלַטְי		i	7	7	SDq	-1	<del> </del>	١٩٠	0	50	nir)				`	1		$\dashv$
	4	മ	عد	4	_	<u> </u>	<del></del>	<u>+-</u>			<u> </u> 	⊥D.	<u> 33,</u>	بالر	308	_دٍ	1 :	3/4	46	300	رو		: 7	! _	(A)	บย	H_3	<u>= 91</u>	محو	)_			-
	إ	مأ	دم	<u> </u>	┼	<del> </del>	<del>  1</del>	لاند	1		<u> </u>	<del> </del>	1,	<u>}                                    </u>	<u> </u>	1	<u> </u>	1	ا	-	<u> </u> 	1	1_4	0	<u> </u>	<u> </u> 		1				<u> </u>	-
	إن	u	+	2/	┼-	╀-	+1	م ا	+-	1	<u> </u>	1.	ىز <u>1</u>	0	<u> </u>	<u> </u>		<u> </u>	1	-	1	<u>!                                    </u>	1	0	<u> </u>	i		<u> </u>					
	_	ממ	10	4	_	+-	-15	<u> </u>		<u>                                       </u>	-	14.	- فا			<del>!</del> -	: -	سك	<u>₹</u> _	-	<del> </del>	$\overline{}$	1	يك	:	<u> </u>	<u> </u>	<u>                                      </u>				<u>-</u>	
	.		-	+	<u> </u>	+	41	عبرك	<u>VI</u>	-	1	1	10	لمه	1	1	1	40,	لمل	<del> </del>	<u> </u>	i	ΉĎ	اندلا ا				i			1		
	-		<u> -</u>  -			<del> </del>	1_	$\frac{1}{1}$	<u> </u>	!	<u>                                     </u>	-	<u> </u>	<u> </u>	<u>.!</u>	1.	- <u>:</u>	<del> </del>	1	<del> </del>	1,		<u> </u>	<u> </u>	! !	<u> </u> 	<u> </u>		i .	<u> </u>	<u> </u>		
	- 1		19	qγ									علالم	نهن	<del>*                                    </del>	بنالا	دور	4	1	elcct	70										1	. !	
	-	4	ψq	+6	لبل	+1	<u> </u>	100	+0	प्रत	id	+2	عنهر	فكا	<del></del> -		لئب		47	+	7-1	1001	1-4	) )(c:	11-14		1	<i>₽</i> \	en	i ar	T.	:	
		_	-	+	<del> </del>	+	+-	1	1 1 7	<u>:</u>	<u> </u>		<del> </del>	<del> </del>	! !	1 .	. ! !	hec	: 	+-	+-	<u> </u>	<u> </u>	<u> </u>	!		<del>                                     </del>	<u> </u>	<del>.                                      </del>		: ·	—i	<del></del>
		(	$\overline{\mathbf{w}}$	<u> Cle</u>	न्रा	$\overline{w}$	<u>:</u>	مناد	ora.	<u> </u>  }	<u> </u>	تعك		43		<u>نينا</u> ا	CAL	Lec	<u>!</u>	<del>-</del>	<del> </del>	<del>  _</del>	†-		<u>:                                    </u>	i		<u>:                                      </u>	!	<u>-</u>		<u> </u>	
		_	<u> </u>	<del> </del> -	+	+			<del></del>	<u> </u>		+-	1	+	<del></del>	+	<u> </u>	+-	$\dot{\top}$	+-	<u> </u>	i	i	<u>:                                      </u>	<del></del>	<u> </u>	<u> </u>	1	<del>: -</del>	<u> </u>			
			÷	÷	÷	+	_	+-	<del> </del>	$\vdash$	$\pm$		+	+	1	+	+	+	<del> </del>	<del> </del>	1	<del>                                     </del>		i	1		-	-	<del>                                     </del>	<u> </u>			
		<u> </u>	+-	+	+-	<u> </u>  -	_	+	-	<u>:</u>	<u> </u>	T	$\overline{}$	-		+	<u> </u>	+	$\pm$	i	$\dagger$	1	<u>                                     </u>			<del></del>	1	<del> </del>					
+		_	<u> </u>	+	+	+-	<u>-l</u>	1	+	1	<del> </del>	+-	+	+		-	<del></del>	+-	$\frac{1}{1}$		Ť	_	_		1		i	1					
		<u> </u>	1	+	1	+	+	+	+	1		+	+		1	$\frac{1}{1}$	+	+	<del></del>	+			+			$\vdash$	$\vdash$						
+		<u> </u>	+	+	+	+	+	+-	+-	-	+	+-	+	+	+		+	+-	$\dagger$	i	<del></del>	<del>!</del>	-	<u> </u>	i		-	$\overrightarrow{1}$	VC	<del>!</del> <del>!</del>	<del>:                                    </del>		
		1	1	i		+	+	+	+	<del> </del>	+	+	1	-		1	<u> </u>	-	<del>'</del>	+	+-		<del> </del>	<del> </del>	-		<del> </del>		1 11 1		<u> </u>		_
		!  -		<u> </u>	-	+	+	+-	+-	1	1	+	+		<del> </del>	+		<del>-                                    </del>	i	+	+	$\frac{\perp}{\parallel}$	$\vdash$				-	i	То	Pag	je N	للا.ه	A
Witi	ne	336	d 8	t Un	l der	sto	od b	y me	<u>-</u>	-!	D	ate	!	<u>.'</u>	lin	vei	nted	by				<u>'                                     </u>	•	<u> </u>	<u>'</u>	Da	ite		•				
												-			R	ecc	orde	d by	,							1						· ·	•
I							. :				ı			ĺ	1			,								ı.		. 7				,· ·	-

		4.75			٠.							RE-		<u> </u>	TIT	ΓL	E_	:: <u>-</u>	i.	ΔJ	olr	<u>~</u> 0	<del>d</del>	30	छ	X	D	LC	20	1	(P	יוככ	<u>a=</u>		<u>.</u>		6
	C	N	.U	A		; .:			T						2	Ŀ				V				-		ŀ		;. ;. <u>.</u>	, : -	١.	l	1	. F.	T	1		.~.
	-	i				:			1						:								1										1	I	1		
	0	4	ect	d.	٤		1	1/1/	4	مم	10	300		4-1	.B.	بو	lļ	1	iri		+	عط	1.6		rф	2		با ۸۷	4	100	n	<u> </u>	क्र	1-	扎	Ť	:::
:		۲	1	İ				<u> </u>	1	_			<u> -</u>	╄	-	$\downarrow$	-				÷		-	10		-					<u> </u>	ļ-	<u> </u>	<u> </u>	+	-   -	_
	η		70	1	Μ		نارا	ul	غك	-1	7.	11	3 C	MY.	he	乜	4	<u>L</u> c	ول	P1.		 	-	<u> -</u>		<u> -</u>  -			-		<u> </u>	1.	+		<u>      </u>		<u>-:</u> -
\$ 6.00 \$20 \$20 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$3			+	+			-	<u>i</u> 1	+	_		77	4		P		+	D-	87)	<u>[</u>	-	<del> </del>	<u> -</u> 	$\frac{\perp}{\perp}$		<u> </u>					<u>                                     </u>	+	+	$\frac{1}{1}$	- i- 	<u>- (k)</u>	 .: ::
St.	•		+			-	-	<del> </del>	$\frac{\perp}{1}$				l	1	I a	1.		0	بــــ		<u>                                      </u>	<u>                                      </u>	<del> </del>	$\frac{1}{1}$		+		0		-		<u> </u>	+	1		27 F	7. 25.
(1) -		<u> -</u>	<u> </u>	+			$\vdash$	<u> </u>	+	\	علا	7-1	+	<u>- n</u>	фf	\  -	4		12	<u>1</u> 	<u> </u>	<del> </del>	╁		<del>-</del>	-							+	$\frac{1}{1}$	1	**   **	= : = :
	<u> </u>  .	-	+	1		-	100	1.2	4	<u> </u>	~	1 6	<u> </u>	7	-80		ار ج	<u> </u>			-	H	+	<del> </del>	+	寸			·			1	†	+		12	
		-		74	Ω	) P.	117		1	21.11		21-E					ات	ــدلــ					1		i	- <u>-</u> -					<del></del>	T	+	Ť	Ť		
	7 ~	300	·	+	i ĸ	m·	10	م (ا	7	<u>:</u> د ر	Α.	co	1.	11 11	ď	Ī				•		Π	Ť	İ	İ						ŀ	T	T	Ť	-	1	_
<u> </u>	1-0	1	444	7	111	<u></u>			Ī						1	T							T			į	 !			1	-	i	T	F		T	_
	1	ا	6	Ť	1	<b>b</b> , ,	0 =	14	8							H	: 1	D		11	ابر(	<u> </u>	- 11	٥		İ		1						$oxed{\mathbb{T}}$			_
	=	9 	1													Ť	i		!	00	. ·	1	1	1											į	1	
				Ī																		Ĭ				-						<u>L</u>	<u> </u>		i		
	1	1	3		<u>-1</u> i	) ),,	=	3	8					<u> </u>	<u> </u>	1	: ব্	D_		10	للنا	_=	9	_						<u> </u>	<u> </u>	<u> </u>					
				1	$\nabla \zeta$	سا	<u>d</u> =	4	¥۷	١			<u> </u>	<u> </u>		Ţ	-		1	00	انبا	=	17	1		_					<u> </u>	<u> </u>	$\frac{\perp}{}$	$\perp$			
							<u> </u>	_	1			<u> </u>	.	1		1	-				1	<u> </u>		<u> </u>		_					<u> </u>	<u> </u>	<u> </u>	$\stackrel{\perp}{-}$			
<u> </u>	<u> </u>		4	لم									بطل	121	of c	لك		ببع	+	<u> </u>	1 2	5	<u>)   C.</u>	مُلُو	يلجد	<del>-</del>		4	ص	عه	1	100	क्र	2	<u>!</u>		_
	+	ta	His	- 1		1	<u> </u>	-	4	إذ	16.		مُندُ	ĖΫ́	غلطة	'n	G.		<u> </u>	<u>i</u>	<u> </u>	<u> </u>			1							1.				<u> </u>	
<u> </u>		_	+	¥	ست	fer	te	4	7	<u>10</u>	الم		100	50	المال	<u>  `</u>	4	167	<u></u>	100	<i>ل ب</i> ا 1	1	<u>:४(</u>	عباد	لإلك	4	(Li	ad_	يم	<u>lu).</u>	50	12	À	<u>ei-</u>	<u>-  </u>	+	
<u> </u>		hi	gh	닉	C	<u> ۱۹۵</u>	#4	101	+	иl	<del>i</del> th		$\Delta \rho$	++	+	7		10)	21		i <u>.                                    </u>	<u> </u>	+-	+	+	Į.						+	$\frac{\perp}{1}$	$\frac{1}{1}$	-	1	_
1		1	1	+		<u>                                     </u>	$\vdash$	<u> </u>	+			1.	-	$\frac{\bot}{\Box}$	+	+				1	<u> </u>		+-	+	+	<u> </u>				<u>                                     </u>		$\frac{1}{1}$	+	+	_	$\dashv$	-
		<del>_</del>	$\forall$	$\frac{1}{\sqrt{2}}$		-	+	+	+					<del> </del>		+	-	_	<u>:</u> 		<u> </u>	-	+-	+	$\dashv$	$\dashv$				<del>                                     </del>			÷	+	!	$\pm$	_
	1	1		1	$\geq$		1	+	+					+					1	1		<u> </u>					-					t	T	+		1	-
+-	-	$\perp$	+	+			+-	$\hat{\top}$		$\overline{}$				<del></del>	1	Ť			<u>                                      </u>			†	$\dagger$	╁	+	1				<u>                                      </u>	<u> </u>	<del></del>	十	$\dagger$	<del>!</del> -	1	-
<del> </del>	-	+	-	+		1	$\top$	1	1					+	<del>                                     </del>	1			-			$\frac{1}{1}$	Ť	$\dagger$	_	1	-			Ī			+	i	-	1	_
			1					T				İ				1	\				Ī	Ī	-	T	T	i							T	T		Ì	_
	İ	Ť	$\dashv$	1		İ	T	Ť	1			ŀ								_/_					T	Ī								Ī			_
	T		i	Ī												I									!							İ	Ī	$\bot$			_
			.						Ī										İ					1	1									İ			
												<u> </u>		<u> </u>		1									Ī	1	<u></u>							1			_
									-							1		·			.					-						_	1.	1		-	
							-	_	_		· ·		_	_		1			<u> </u>			<u> </u>	_	_	_	_				<u> </u>	1	 	<u> </u>	$\bot$			
						<u> </u>	<u> </u>	_			<u> </u>	1	$\downarrow$	_	-	1		<u> </u>	<u> </u>	1		1		1	1					_	<u> </u>	<u> </u>		KC		-	_
			<u> </u>										!						1										<u> </u>			To	Pa	ge	No.	<u>N/</u>	<u>+</u>
Vitne	sse	d 8	k Ur	ıde	ers	too	d by	/ me	е,			Da	te				Inv	ent	ed l	Эy			·				••		Da	te							
				•											:	t	Red	core	ded	bv				_			-										
						• ;						ī				1		J-01 V		٠.			<b>.</b>						t			. :	1				

reland Digestim of Page No.NA 4/7 LR DNA To Page No.N.A Date Date invented by Witnessed & Understood by me, Recorded by

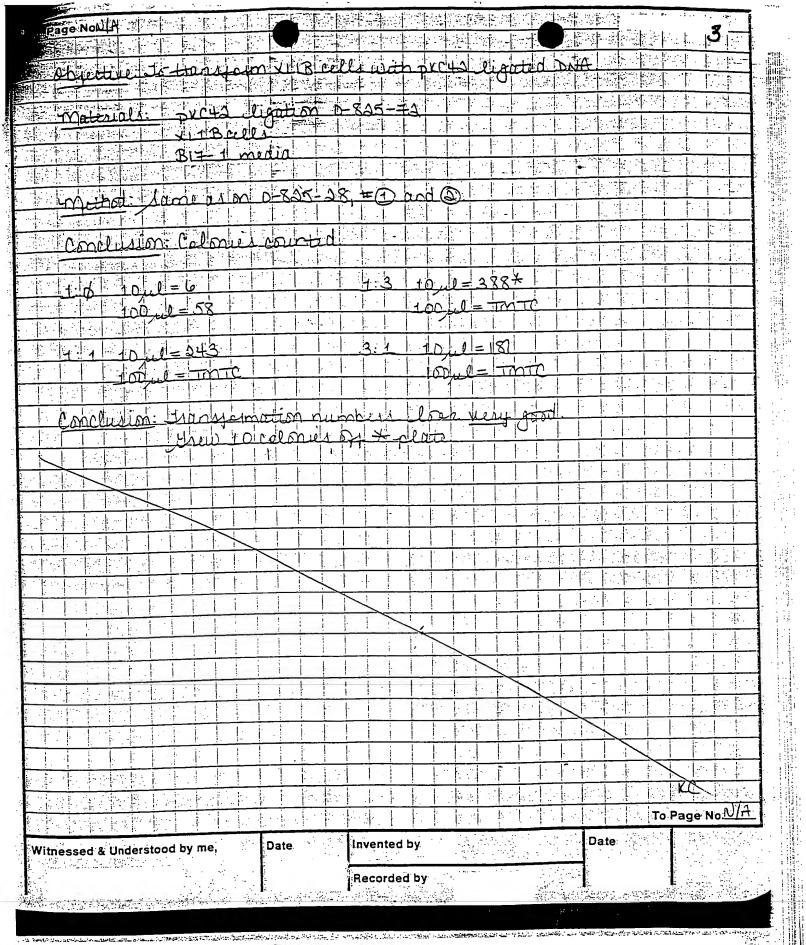
Agree and the

And the second s



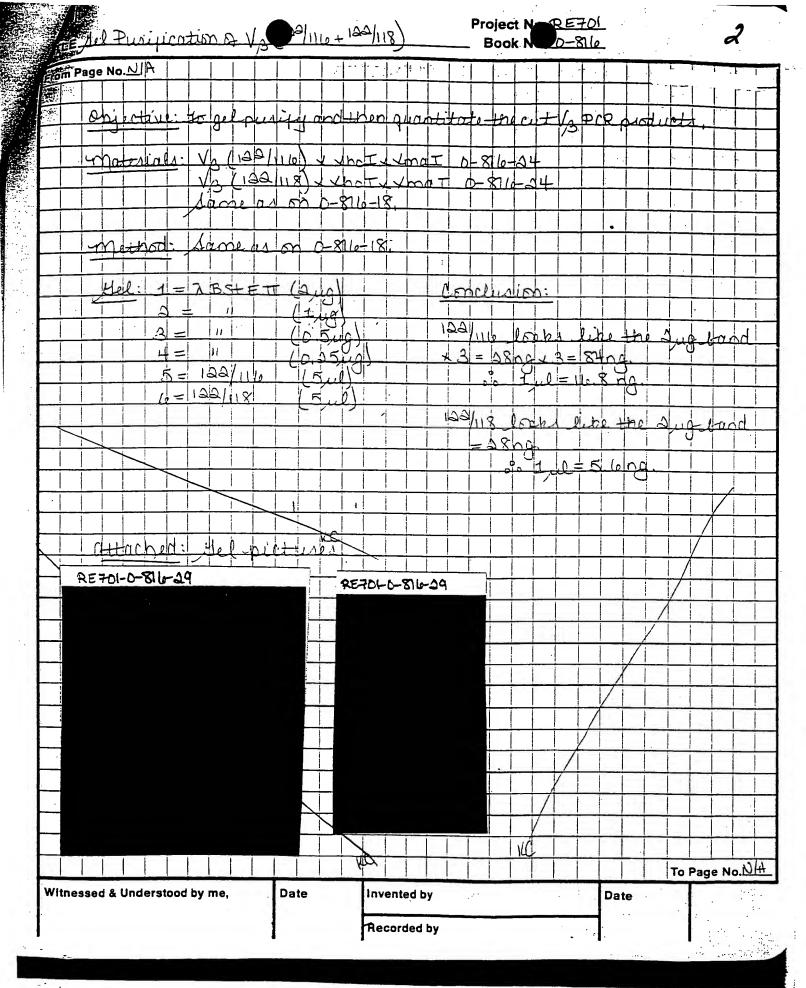
大学 はないない かんしょう はんない はない はない はんしょう はいかい かんしょう

	Project No. RETAIL	THE Tranting All		
e No. N/A	Ends Response		Torritor to the second	
ge No.IVAN				
Ohiotive J	Ligate 114/1310	(V) into person 8		
The state of				
matrials	114/15/02 SCIT	*Solt 0-825-70	asnat e	
	DKCDIRTSGT	-15pet 10-816-010		
<b>计算过程的模型</b> 的	Theirmal			
	T4 ligare a	alper I I		* 1
<u> </u>				
Method: 1	et up 4 ligation	M		
Maria Cara de Maria de Cara de				
Vector = 3F	Table 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		10 (verta: insert)	
		-25 except in culto	tod 1 how @ soam	
temp	esature.			
		1.4		
	1:10	1:13	3.4	
ا الم	14.4	44 4	131	
Verto		147	<u> </u>	
insert		3 2 2	7 7	
liando	1	1 1 1		
ligase	36	70 0.4		
	VOL	20,1 22,1	1 22 0	
Conclusion 3	tigations set up	p d + de scripted.		
		1 1 1 1 1		
	+			
				1 1 1
thick to be to be	ETTE MELLS			
				4
			ТоР	age No NA
Witnessed & Understood	d by me, Date	Invented by	Date	
Vitnessed & Understood				
*		necorded by		



Project No.

	1289	. 4	\(\frac{1}{2}\).	·. A-	<u> </u>	E	300	k A	lo			<u> </u>	71		1.				<u> </u>						110	+	. 10	<u>a/</u>	==	<u> </u>	5
	12 a 9	- 1/10			<u> </u>							ş		-  -  -		- n == ::  -	2 - 1/3	1 13			1	-	<u>r                                    </u>		<u> -</u>	- 	1	- :	i	 I	. —
				-	<u> </u>	<del>  </del>			- A	1	14	1					+ /	-	<u> </u>	<del> </del>	<u>                                     </u>	<del>                                     </del>	١,	<u> </u>		<del> </del>	<del> </del>	<del> </del>	1	<u></u>	_
		40	12.	<del>pu</del>	P	<del>                                     </del>	10	100	<u> </u>	LEL	NI.	<u> </u>	He.	1		<u> </u>	487	1/2	<u>D(</u>	<del>   </del> -	عمد	10	107	7.	M	<del>} -</del>	4	da:	φω	٨_	<u> </u>
200	in Fi	<u> </u>	<u>r.                                    </u>	11				<u> </u>	1 1			+	1 -	1	1	1 .	<u>                                     </u>	<u> </u>	1	-	1	-	1	<u> </u>	<u> -</u>	╁	+-	-i -i	<del> </del>	!	<u> </u>
9		Yet	<u> </u>	11-	Alc		TIC	¥Δ:	<u> </u>	<u> </u>	1	<u>بر کا</u>	h byc	Tru I	4					10-	1	<u> 0-</u>	91	<u>}                                    </u>	<u>  .</u>	<u> </u>	<u> </u>	-		<u>i</u>	<u> </u>
	1	+	-	-			<u>!</u>  :	<u>! _ `</u>	F	1		<u> </u>	_	<u> -</u>	<u>                                     </u>		90	ļu.	<del>})</del>	<u> </u> 	13	<del> </del>	<del> </del>	-	<u> </u>	<u> </u>	+	+-:	<del> </del>	!	_
		<del> </del>	-	<del>! -</del>	<u> </u>	<u>                                       </u>		<u>!                                    </u>							1/4	<u>.                                    </u>	$\vdash$	<u> </u>  -	-	1	<u> </u>	<u> </u>	!	<u>!</u> 		<u> </u>	╀	-  -  -	1	<del> </del>	
. 1	<u> - -</u>	1	1	-	<u> </u> 	<del>  </del>	-	<u> </u>	1	1.	100	<u></u>		$\mathbb{O}$	Ų.	<u>v</u>	1	-	<u>l·</u> I	<u> </u>	<u>                                     </u>	<u> </u> 	<u> </u>	<u> </u>	1	<u> </u>	<del> </del>	1	1	+-	<u> </u>
!		<del>;                                    </del>	1	<del>                                     </del>	<u> </u>	_	<u> -</u> 	<u> </u>	_	hi	$\overline{}$		1	<u> </u>	-	!		<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u>i                                     </u>	<u> </u>	1.	<u> </u>	┼	1-	<u> </u>	-	<u> </u>
	<u> </u>	ř.	-	<u> </u>	1	1	l ·	-	1.3		1	لنالي		1	1	1	<u> </u>	<u> -</u>	<del>                                     </del>	<u> -</u>		-	<u> </u>	<u> </u>		<u> </u>	┼	<u> </u>	<del> </del>	<u> </u>	<u> </u>
		-	<u>                                       </u>	-	1	! 	<u> </u>	1	+-(	7	1	4ie	1 _	,		4	!		_		<u> </u>	<u> </u>		-	<u> </u>	<u>i                                     </u>	<u>i</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
	-	1	!	<u>                                       </u>	<u> </u>			<u> </u>	1-6	لاثام	46	عبا	<del>,D</del> C	<u>'R</u> '	<del>\</del>	إسلا	Hic	如	<u> </u>	<u> </u> b	4	4	lia	ber	<u> </u>	<u> </u>	<u> </u>	<u> </u>	-	<u> </u>	
		1	-	<del> </del>	<u> </u>				1	<u> </u>	<u> </u>	+	<del> </del>	<u> </u>		1	-	<u>                                     </u>	<u> </u>	<u> </u>			<u> </u>	<u> </u>		<u> </u>	<u> </u>	<del>!</del>	<u> </u>		
	<u> </u>	R	<u> </u>	مام	سل	4	4	bel	þd	عما	4	100	ren	<u> </u>	<u> </u>	ىلم	μi	<del>h</del> a	· V	zit	1	مكن	$\alpha$	<u> </u>	<u> </u>	بر	<u>'Q</u>	<u>  -</u>	<u> </u>		
	<u> </u>	<u> </u>	!	ļ			<u> </u>		<u> </u>	<u> </u>		1_	<u> </u>	<u> </u>		<u> </u>	<u> </u>			<u> </u>					<u> </u>	<u>                                     </u>		<u> </u>	<u> </u>	<u> </u> .	<u> </u>
-	(3)	+/	<u>3</u> d	بونا	1			1	<u>+</u>	4	4	<del>ب ا</del>	لضك	$\mu u$	<u>, 01</u>	$\varphi \mathbf{r}$	100	1115	<u>.</u>	عوما	مده		عنا	<u>\</u>			<u>!</u>	<u> </u>	<u> </u>		
.  -		$\bot$	1		1			<u> </u>	<u> </u>	<u> </u>		!	<u> </u>	!		<u> </u>	<u> </u>	<u> </u>					,			<u> </u>	<u> </u>	!			
			: /	β×	1			<u> </u>	<u> </u>	Let.	<u>-</u> 4	<u>41</u>	7	ho	سلط	10	<u>\$                                    </u>	구°	<u>c.</u>	<u> </u>							<u> </u>		<u> </u>		
				لحلا		_			<u> </u>			<u> </u>		<u> </u>	<u> </u>													<u> </u>			
		3	لىرك	13	42			(	3)	عط	止	1:	<u> 100</u>	لننا	ht	<u>-</u> d	عد	m	ا. بصر	علما	1	D 1	.J	ى د				<u> </u>			
.	<u> </u>	131	لميذ	bi	4	11					<u>;</u>	<u> </u>		<u> -</u>	<u> </u>	<u> </u>	<u> </u>														
_	_	181	لسلا	صا	at:	4						<u> </u>		<u> </u>		<u> </u>											<u> </u>		İ		
.		14	سبڅ	<u> </u>	40				Cs	کوک	سا	ia	٠. <u>'</u>	$\mathcal{Q}_{\cdot}$	321	المتك	500	منا	بردع	air	معا	1 d	1_	de	<u>102</u>	ih	<u>q</u> 4.	!			
	<u>·  </u>	Į,	301	كىيلا				_					T		<u>ဗ</u>	<u> </u>		'	<u>'</u>									i			
		<u> </u>								ļ			-			ļ						İ		1			į	į	!		
		Ì					-					1	<u> </u>	!	ļ ;	!								1							
.	Ì		<u> </u>											i		-	1											1			
.  .		l i													!	-															
!	i		<u> </u>									$\perp$	į		1		1								-			[			
		İ	<u> </u>						<u> </u>					_/_		į															
																	1														
	1		-																					T							
	!														İ						=		ĺ							Πİ	
	1	Ī										Ī	-			-					i		$\triangleleft$					_		İ	
												i				İ				i		7					•				
: !		į										!			Ī						Ť	1					~				
. :	1	!	-						i						İ					İ	1	$\dashv$	1	1					PC	$\Box$	
		-	1										İ		<del></del>	<u> </u>				i	<del></del>	+		$\dashv$				To	Pag	e No	انر
Witn	esse	d &	Und	erst	oođ	by ı	ne,			Da	te	<del>`</del>	<del></del>	Inv	ente	ed b	y	<u> </u>		<u> </u>					Dat	te	*		~9	-	
										:				Re	cord	led	by					<del> '</del>									



	Project No. REAL Book No. D	TITLE LIGHTING D. V. (122) [13]	107th avoid of
meage NoNA			The print of Coxco
Objective: -	1 ligate V / 122/16	1 with 2 x ca + 2 V 1 120 11	+ + + + + + + + + + + + + + + + + + + +
	1 10 1 13 - 1 1	1 with Arca+ 2. 1/2 (120)11	
motsialst	nathin: Vallasiu	<del>                                     </del>	///////////////////////////////////////
	puca4.ax	Pull to the state of the state	
	I I I ot and		D#1.2701.0
	Ti digase	8 11 12 1	<del>                                     </del>
	I mission	115	
	I I I Proport		
Same as	stop ( ) on 10-816-	07	
Det 40 4	ligations, Vento	~ 2900, mast ~ 700 h	
	1.0	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ratio = 5.5
vecto		1:3	3.1
unvert		34	142
- hijes	4.0	1	
lipuse	1,0	1 1 1	12
word	410,0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	_   1
	1-10		5.3
		7 i Cul	20ul
Conclusion:	digations set up	The disastant	<del></del>
	Ψ		
+			
++++			<del></del>
<del>}                                    </del>			+ + + + + + + + + + + + + + + + + + + +
			<del></del>
			+ + + + + + + + + + + + + + + + + + + +
	1.   1   1		<del>+ + + + + + + + + + + + + + + + + + + </del>
			I IVC
			<del>                                     </del>
nessed & Understood by	me, Date	Invented by	Date To Page No.NA
<del></del>		Recorded by	

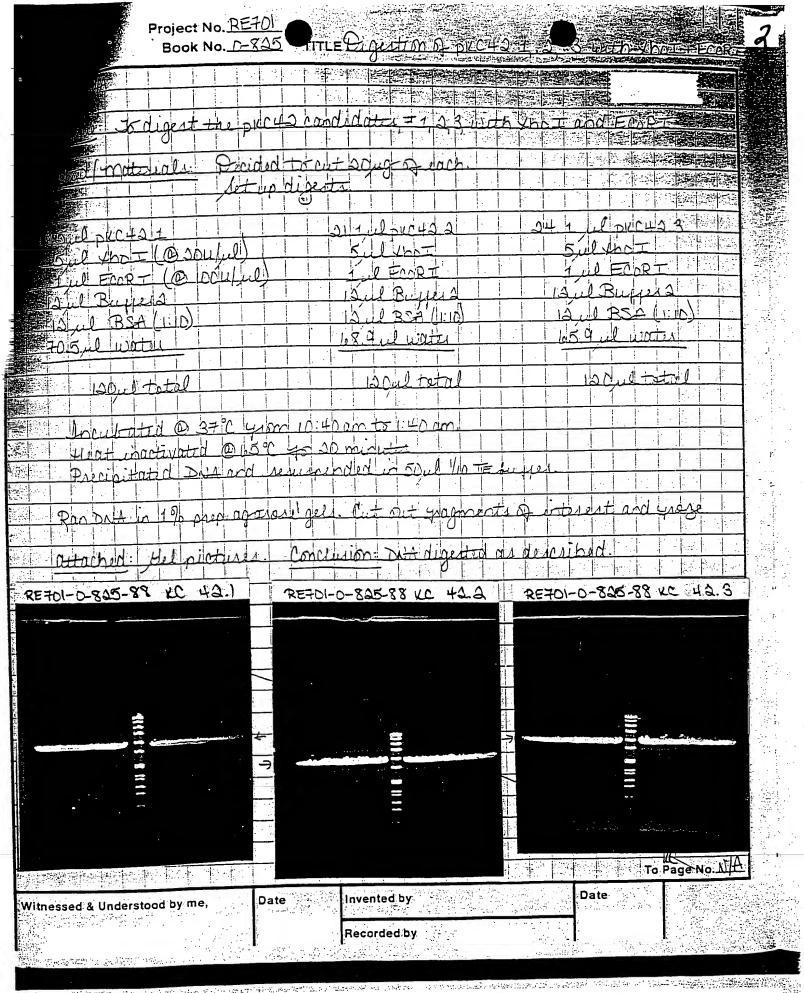
Project N With DICCO4.2 (DICCSO) BOOK NO. 0-876 Page No.NA ARA O SA To Page NoNA Date invented by Witnessed & Understood by me, Date corded by <u>सिन्द्र । सिर्वे (१८) र प्रवृत्त्वा अनुभवन्त्राम् विदेशी सम्ब</u> MUNICIPLE CUPY

	Project No		<u>l</u>		Two was	1 .		
	Book No		TITLE	Lanne	production a	1 LR	C000110	Inth &
No. ALIA		1		V	Dresa un	न कार द		ALL.
Page No. 山A			7/2-1				1	-
a objective:					ich the li	anted:	DNAYNO	m
	0-810-	3000	10-87	16-311		9		
Moderials	1: Plan	told box	Alum	0-816-3	O Louga			
	ling	ted Da	Alish	40-810-	3 1 pxc2	7		
		3 0000	T T T	77-310	31 (90)			<u> </u>
	B17-		0	1 1 1			0	
			sent					
	110-	1+000	2-22/12	TA				
	0					<del>                                     </del>		
method:	Same	14 W t	5-12119-9	181		<u> </u>		
			<del>`</del>					
Conclusion	Calm	rgypa	enten	hey+ dr	elonie y yor			
			<u> Pir</u>	breid to he	elmierwor	m early	D: CKC	
1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	$\psi_{\mu} = \psi_{\mu}$			1. Ho or	ac on			
110	cile = q			1 0				T
								1.
Louca9			- KC3C			<del>i i i</del>	<del>-   -   -   -   -   -   -   -   -   -  </del>	
1 11:11 10:	,0 = 10		4 4	10,10=				
	ul= 97			1 12. !		1 1 1		1 1 1
7 7 7 7 7				70000=	<u>-310                                      </u>			
1:3	0=2							
	12 = 10 A		1:3	10.0=				
	111 - 11a			100 .0=	42			-
1 3:4 10	R = 4   L = 49	+ + +	3:1	10,00=	: 10			
<u> </u>	ul= 79			100 e=	= 41			
				<u> </u>				
						<u>                                     </u>		
		1 1 1			<u> </u>			
							TTT	
						i	Tit	
					<del>                                      </del>			
					<del>                                     </del>		<del>                                     </del>	
				<del></del>	<del>           </del>	1		
		$\top$			1 1 1 1			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Vitnessed & Understood b	w me	Date				1	·	Page No.NIA
easen a minetäidod D	y me,	Pais	i mve	ented by		Da	ite	
	•	1	Reco	orded by	<del></del>		•	

Project No. READI Book No. 1-816 TLE MICH MARTH DIRECTION SOUCAN - DICCON -
Shightive to Acron presa and presa and rate & you as the Surger
abjective to Marcon Pragan
Mothed/materials Ollary Diaspin Dlamed Extraction K+ Chom Surger
Mothed material and Dust
Mothod man planned ma
O but her Day with the T and that I have jet an invited = 200 pc
emade 14 pool: 3 bout total @ 37°C year & hours
made 12 pool: 3 houtsted a 27°C year 2 hours
leul that Pan 19 agains gels dans 12 = amoral
Level that  12 ul tract  13 ul tract  15 ul
Due BSH (110) Confluence to the relation of th
10 10 10 10 10 10 10 10 10 10 10 10 10 1
TSul suprish water standard and single selection
190,1
The state of the s
Sulto each disect an invest but continue the description
CA STATE OF THE ALL OF THE PARTY OF THE PART
(contral = presum) - 2,3,6 mg (through der putting)
7 28 0K3D
(1th) (11 12 p 12) 12 p 12) 12
==70HD-876-38 PKC29
NE-FOTO-SILV
To Page No. A. I.A.
Date
Invented by
Witnessed & Understood by me,
Recorded by

Witnessed & Understood by me,  Date Invented by Recorded by		Project No. 2			ľ
Page No. 214  The locative of the part of the cuttanger o		Book No. D-825	TITLE	A DKC 343 and DKC 352 With	
On instale. He signed by C. 24.3 and ptc. 35.3 with who I and Frank I method methods. Second to cut 20, 25 miles and a core.  100 of pro. 34.3 (2 18 jet to 10 0 255.1 + 15.1 pro. 35.3 (20, 00) 0 805.1 + 5.1 pro. 35.3 (20, 00) 0 805	Page No.LJA				****
Mittessed & Understood by me.  Date  Interpolation To extraor a sound race.  Act up digets  1000 le pro3+3 (& 18 je potal) 0305 = 45 le pro35 2 (\$0 je) 0805 je 5 jel yro T (\$0 \$0 \$0 \$1 jel )  1000 le pro3+3 (\$18 je potal) 0305 = 45 le pro35 2 (\$0 jel) 0805 jel 1 jel 2 j			444 1		in the
Mittessed & Understood by me.  Date  Interpolation To extraor a sound race.  Act up digets  1000 le pro3+3 (& 18 je potal) 0305 = 45 le pro35 2 (\$0 je) 0805 je 5 jel yro T (\$0 \$0 \$0 \$1 jel )  1000 le pro3+3 (\$18 je potal) 0305 = 45 le pro35 2 (\$0 jel) 0805 jel 1 jel 2 j	Objective 4	while the total	3 000 01035 2	Nath who = alog =0.07	
Silver To Bally and Same Hold prosess a Carun) of Same Hold prosess a Carun) of Same Hold prosess a Carun) of Same Hold prosess a Carun) of Same Hold prosess a Carun) of Same Hold prosess a Carun) of Same Hold Bully and hold prosess a Carun Hold part of the Hol	No prairie.			THE THE THE THE THE THE THE THE THE THE	
Scillos I (a Sapatal) class Holly cass a (and) cross of the I find Ecopt (a souther) the Ecopt (b souther) the	mather I may	Lands Dondon	+ to 1.1+20.20	TALA LONG	
TODAL DECAY 3 (2) RIG TOTAL CASALT HE LI DECAS (2000) CROST TO THE SELECTION OF CONTROL OF THE PROPERTY OF THE	THEO DUTTER				
Speling ( Dodulju) to Fore The Region of the					
Spel short ( DioDutjul) 1. J. Fore T  THE BORT ( DIODutjul) 1. J. Fore T  HH. Riffers 1. H. Riffers	400 0 -01	1242/18/21	+n01/282517 H	10-4025 N / 20 M - 805 M	
The Bright (@ DORLING)  Hell Bright (D)				16 5 5 5 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6	
Here Richers Here Read (110)  Here Read	JUL EN	DT / BINNII			
How the trail How trail How tr	THE R	ue conoun			f
How total and results of the Company				I REALLIN	
Help total #10 l total  Jacubatta @ 37°C pam 2 - 4pa  Help totata DAA and resurp and a 50 l Wo To buffer  Conclusion DAA digetta as discribed  Conclusion DAA discribed  Conclusion DAA digetta as d					
Joculated @ 37°C pom S - 4 pon  Heat inactivated @ 165°C po so monetal  Parei pitated Dolff and securopinated in Soul 1/10 T= 1/1/20  Conclusion: Dough digested as discribed  Conclusion: Dough digested as digested as discribed as discribed as digested as digested as discribed			10	LE LE LEZA	
Joculated @ 37°C pom S - 4 pon  Heat inactivated @ 165°C po so monetal  Parei pitated Dolff and securopinated in Soul 1/10 T= 1/1/20  Conclusion: Dough digested as discribed  Conclusion: Dough digested as digested as discribed as discribed as digested as digested as discribed	אייער	total 1			<u>:</u>
Helt inactivated @ 165°C to so moutait  Precipitated DHA and serviced of in 50 tel 1/10 To hape  Concludion: DHA digetted addessined  Concludion: DHA digetted addessined  For Page No. 1  Witnessed & Understood by me,  Date  Invented by  Recorded by  Date		L. Walls		TOW DEAL	
Heat inactivated @ 105°C to so mouted  Precipitated DAA and serviced of in 50 tel 1/10 To hape  Conclusion: DNA digetted as described  Conclusion: DNA digetted as described  To Page No. 1  Witnessed & Understood by me, Date  Invented by Date  Recorded by	land I worth	@ 27°C 4.000 1	1		
Precipitated DNA and returned of the Soul in Takings  Conclusion: DNA digested and dearning of the Soul in Takings  Conclusi					
Conclusion: Dark digetta as described  Conclusion: Dark digetta as described  VC  To Page No. J  Witnessed & Understood by me,  Date  Recorded by  Recorded by		d Dal A and land	AD SO MOUTES	011/2-1	
Witnessed & Understood by me,  Date  Invented by  Recorded by  Recorded by	Fragua	eu Di <del>ore</del> Win 21832	speciel of 30,	110 = 6.490	
Witnessed & Understood by me,  Date  Invented by  Recorded by  Recorded by	1 nonversion	Day directed o	1 dainaihad		
Witnessed & Understood by me,  Date Invented by Recorded by	Contracti	The second			1
Witnessed & Understood by me,  Date Invented by Recorded by					
Witnessed & Understood by me,  Date Invented by Recorded by					- 1
Witnessed & Understood by me,  Date Invented by Recorded by					
Witnessed & Understood by me,  Date Invented by Recorded by					
Witnessed & Understood by me,  Date  Invented by  Recorded by					ŀ
Witnessed & Understood by me,  Date  Invented by  Recorded by					
Witnessed & Understood by me,  Date  Invented by  Recorded by					4
Witnessed & Understood by me,  Date  Invented by  Recorded by					
Witnessed & Understood by me,  Date Invented by Recorded by					- 1
Witnessed & Understood by me,  Date Invented by Recorded by					
Witnessed & Understood by me,  Date Invented by Recorded by		-	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		
Witnessed & Understood by me,  Date Invented by Recorded by				THE REPORT OF THE PROPERTY OF	
Witnessed & Understood by me, Date Invented by Date  Recorded by	(A) (A) (A) (A)				
Witnessed & Understood by me, Date Invented by Date  Recorded by			10000000000000000000000000000000000000		
Witnessed & Understood by me, Date Invented by Date  Recorded by				al ball the labor labor	
Witnessed & Understood by me, Date Invented by Date  Recorded by	(1) · (1) ·	1 1 1 1 1 1 1 1 1			
Recorded by		by me, Date	Invented by		
[[attack]] [[attack]]			r Ludding Pala Stage		
			Recorded by		

Money Property	2 and 3	Book No. 1-845	1
167 A.			
GE NON A	to a		
Objective Tourolate plan	I'val new land	VIA A GOD 3	24. 对文体对学技术中央
Phrective Tourslate plan	UCT DIGHT CHEWAY DEC		
· · · · · · · · · · · · · · · · · · ·	n 005 115		
method/metorials Jame	11 M D-820-40		
The second back of the party of	4 5	4	
Conclusion OD scans west	not purite of		
		0/280=1.59	
pvc.421 (1:100) 240= C	3023	1230	
280= (	).128.8		
<b>"自然是我们的,我们们的一个人,我们们的一个人,我们们们的一个人,我们们们们的一个人,我们们们们的一个人,我们们们们们们的一个人,我们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们</b>	- NI G	1 0 , 200 0=	205346
0 2053	50×100= 10265	Diffus X and the	
		230=1-78	
pre422 (1:100) 260= 01		797=1-10	
28D = 0-			
J.C.	e 50 × 100 = 948	M 0 4 200 0 = 1	89 6 19
0.0184	0 400 4100 = 442x		
	20 100	181 = 386	
DICHA3 (1:100) 260= 0.11			
280= 01	4 0 C 0 W	1,0	
	50×100 = 45 8,00	xCx200,0=165	Jun-
0.1600	3000 - 300 -		
	d as described		
Conclusion: DNA walnut			
			To Page NoN A
			Date
Witnessed & Understood by ""C"	Date Invented by		
	Recorded	y .	
			The state of the s
· 国际的特别的 [1] 为自然是是是国际特别的国际的国际的国际。			



in the second	or VII Othorch		No. 0 E 701 No. 0 Z 3 F
7 7 0		DKC43+44)	NO TAO
From Page No.UA	10 h 60 +h 1 2 2 c	est seasons see	DE701-0-825
3.3.3 phillips			
Ohibetue Holler		intopicias to	- vield I single chain
Constau	4		
in telials: proits	3 VAOTAELOR	I @ 4 a part 1	(0-825-93)
pvc34		@ 18 m	(0-825-74)
pvc35			(0-835-74)
	rate charges		
			vc.
method Set up	* ligations wi	th pic34 and 4	
	/	ligation.	
	1 1 1 1 1 1		
Vector & 340C	bp. Insert 4	850 ba Ratio =	1:4 (vecto: linsest)
I myed all com	ponents except		aminutes @ 105°C
Returned to i	ce, added liga	so and uncertain	d1 hous @ soon temp
		1.2 3.	
43 (1) 343) 1		1:3 3:	<del>-</del>
3/2000	4 34	3 4 10	
West 3			
1			
Digas 1		11	
41	ما ا ا ا	1.10	
10,	e Toul	1 20/10 2	0,11
44(0)352) 1	<u>:H</u> 1:3	9:1	Conclusion: digations
		102	set up a 1 dearline
Vector 3	4 3.4 a	11/10/	
	1 2	4	
10000	1		HE I CHARLEST THE
1 Dortes	ا <u>ا</u> ا	38	
	Oul   20 ml	20ul	To Page No. N
Witnessed & Understood by m	e, Date	Invented by	Date
		Recorded by	
			Althorists and the control of the co
the particular terms of the control	CANADA CONTRACTOR OF AND ASSESSED.	and the first of the second of	and the same of the same of the same of the same of the same of the same of the same of the same of the same of

CONTRACTOR OF STREET

A. S.		Pre	ojec	ťΝ	0.1	30	Ñ	Dl					7		-									7				
ا ڪ			300				10	Ł	TI	[LE	بلك	20.	140	am.	at	īM	ΞĐ.	ΧĽ		٠. و	01	ركيا	σh				5	<del>-</del>
From Page No	NIA +	12 411	7	F1: ::				1	1		1			. : :		1, 0	1	DVC	11.4	<u>+1</u>	l u		1	इस र क संदर्भ	240	decessor	ر در در در در در در در در در در در در در	and and
			,: '					2.41				1			*							_	¥,	de d	<u> </u>	- [ <sub>2</sub> ;];	.∓. ∦. ₹	2 2
Chin	we to	- <del></del>	na	10	m	J	4	a	. 0	0.	1.0	14	20	C4	2	an	N 7	2KC	41	<u> </u>			Faren	-	17	15 T	1000	i pres
		-		=							$\frac{n}{ }$	المينا	1316				-	1	<del></del>			-	1		1-	15		ile Tes
Mote	ou.	العا	7	13	0	M	17	M	1	0	8.	7	1		7			Ť · ·	× (1)						1.33		12.7	
	***::  <u> </u>	الا	dC4	ι¢.		J	in.			-	u			-	-						1	F			İ	-		
<b>建</b>	* 1	لاٰ لـــٰـــــــــــــــــــــــــــــــ	1	B	cel	1	L				1	1								· ·				1		T	1	
		13	7-	1	me	di	<u>n</u>	-			ļ							<u> </u>		:			1		1	-		
				-				ļ	i				:i -, :					<u> </u>	<u>.</u> .									1
yneth	<u>w. O</u> (	Hil	led			_		اند			dec		D,	J	Ce	221	ما	ad	1/2	8		00	h	li	and	TOY	1	
	1 4	et 1	lit	3	Li	ce	4	كم	50_	m	של	1	1	:				<u> </u>						(	1			
		-							1							-									1			
H (P)	entat	och	10	1 .1			7	-		1	M					nec		-	<u>Ni</u>	_				[	†:.:·			
1 1	t bobl	ml		ed						عر	+	20	1)	03	3 <sup>2</sup>	CI	Йd	3	sh	y b	in	4	آم	11	1	JOI.	1	
	attal	10u	l a	nd	11	D.	البا	9	20	10	1 2	كنة	BLA	-1	+ (	m	ρ.	ام	ot			410	20	no	Ne	<u>-</u>		1
n	ight @	) 137	13C.		1	-		1		ļ.	1 -												4					1
4		<u> </u>	Λ -			-	<u>  .</u>		<u> </u>  :	<u> </u>  :			i -										ļ <sup>r</sup> .	1	<u> </u>	<u> </u>	ļ <u></u>	1
Lonc	: المناسان		lo	المدا	4		10	to d			•			-	-				- 2				4 2 4 4	13 %				.  -
	F: 1	$\frac{1}{b}$		٨	٦,		1 .			). 				-					<u> </u>		st				1	1:.	1	1:
DKC43	X		Ou	Q =		<u> </u>				<u> </u>	אל	4-	- "				. ,	10	الم	-	کی			<u> </u>	1	:- 	· · · ·	
		<del></del>	س		<del>- (</del>	<u> </u>				1					-			വ	<i>u</i> !=	- /	700	IC.			<del> </del>			1:
7 7	1.1	11	),,(	) _	74	:									}-	2	- 1	ار ن	0 =	13	<del> </del>							)   (4)
		1.		Q =		17							-	j					,0=		<u>~</u>	7		7. 7			2 1 2 2	1
	1.		7													. 1												
	1:3	10	1	=1	25	*		:			.			-		વ: I	,	in.	ا ل	13	Q		: 3		i,			2 .
		16	Dul				המי	T.			-	-		I		% · · ·		in	t t			77	÷ .,	· . ·				:
		.																1									· ·	1
<i>u</i> ,	3:1	10	ul	=10	5	_					C	m	Clu	11	M	. 4	74	26	لده	ا يا	100	bo	Δ	$d^{T}$			•	
		16	Dul	= 7	m	IC					Ţ		rei		0	car	bc	da		با	en	160	اير	م	Lud	21		
			1								1	m	al	معط		υd	h	X			. `					Y 2		
		=			-	_								-										1 1 kg				1
		+	1.							_					. :		1							M 1 . 1.				1::
		1										. 1			$\preceq$	$\rightarrow$			-  -				c. (1)		(27.) 		\$1 3. 3. 1	
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						<u> </u>	:				1		-					$\dashv$		$\bigcup$		3 g / 1		i.		2 1 2 19 1	18 24. Li
1、"我然后非常 1、"我们不是不是		1	1 1	·	 :	<u>. ·                                    </u>				* *	-		• • •	-		1						$\geq$	$\rightarrow$	$\overline{}$		•		i.
			<u>                                     </u>	· !	. 1		1. 1 <sup>1</sup>		·:		· .		- l.	- F - 北	- 1					·  -					<u>~\</u>	<u> </u>	 []	[/ A
		- H	·)	<u> </u>		Da	l .							.  f			4514	7						10	Page	e No	<u>لالـ.د</u>	11
	·······································						T ES																			987.		~
Witnessed &	Unidersity	Ju Dy	me,			Ua		-		inv	ente	d b	y 						-0.		Dat	e.	, ( )					

objective: To induce the Fab constructs con-
taining the DOILID cell cline's TCR (pxc3435,
40, and 41) and the SC constructs (pKC43 and
44). PICI8 is a positive control to the 3 chain
materials:
cells all adapted to high phosphate media
high phosphate media clow-phosphate media
protein extraction buffer (R77) urea
consider extraction chapter (RT+) with
Method Cells grown oreinight in high phosphate
media @ 30°C with shaking-5mleach.
attached: Basic induction epotocol.
INDUCTION OF THE phoA PROMOTER SYSTEM:
Small scale:
Grow overnight culture in high phos. medium (B5) @ 30°C5 mls is enoug
(2) Harvest Zmls into each of two tubes
Pellet cells (gently)wash one pellet with high phos. medium, and the other
with low phos. medium (B8)
Repeat once
Resuspend the appropriate pellet with 2 mls high phos. medium, and the oth
with Imls low phos. medium. only to dome constructs:
Inoculate the resuspended cells into 100mls of the appropriate medium
Induction is carried out with growth @ 30°C for 4+ hours,- overnight.
- NOTE: Both B5 and B8 already contain ampicillin!
Inductions were carried out you 5 hours o oxer-
night as noted:
$5 \text{,h.} \rightarrow 34,35,40,41,43,44,18$
5 hs. non-induced -> 44
ON → 34,35,40,41,43,44,18
0N 200 - 120 N 144 F 100 100 - 100 N 100 N
PEST AVAILABLE COP

Induction of Fab and Singl	e Chon Cons	tructs 2
3 D 600 s were measured:	<u> </u>	
34-5 (0.04 × 2 = 0.08) → use	all 50ml =	10 ODA
35-5 (0.07 x 2 = 0.14)	II	
40-5 (015x5=0.75)	13.3ml	11
41-5 (0.1 ×5= 0.5)	20.0 ml	
43-5 (0.03 x neat = 0.03)	all	
44-5 (0.1x5=0.5)	20.0ml	
18-5 (0.12×5=0.6)	16.7 ml	
44 N-5 (0.055 × 10= 0.55)	18.2ml	<u>[]</u>
34-0N (D.D9 × 10= D9)	11.1ml	()
35-00 (0.21 x 10 = 2.1)	4.8 ml	D.
40-00 (0.09 ×10 = 0.9)	11.Iml	
41- DN (D.11 X 10 = 1.1)	9.1 ml	
43-0N (0.05x10=0.5)	20.0 ml	
44-DN (0.26×10=2.6)	3.8 ml	
18-0N (D.1 x 10=1.0)	10.0 ml	
44N-DN (0.4×10=4.0)	2.5 ml	11
18N-ON (0.37 x 10=3.7)	2.7ml	
Pellets (volumes listed of Pellets resuspended in Jour Sminutes @ maxin Soluble yeartion. Resus of same buffer + 8 Mu temperature and spun 5 speed. Supe. = insolu	inctes using mum speed.  spended-pelli rea. Rocked 1/2 minutes ©	extraction cup sonicati supe = ets in Inl show @son

19. 19. 19. 19.

154 3

BEST AVAILABLE COPY

Shiertive: Is look @ E cali lysistes you tre induction of either Fab TCR or single chair TCR.

Materials: lysates prepared on p. 4-5 2x cracking buffer w/ same blatts 12.5% SDS-DAGE gels membrane

method: Odysates were diluted 1:3 in 3x cracking huffer (10 ml lydate + 10 ml luffer, per lave)
Boiled 5 minutes Run out on 13.5 % gels.

300 mAmps.

Blocked I how in flatte diluted 1:10 in 1x PBS.

Washed 1x. Profeed 40. I how with a - 4/3 TCR- HRP.

D 1:1.5 K (Sbyll | 39 ml hupper) in flatte diluted

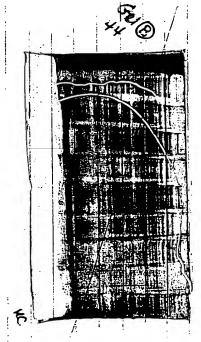
1:50 in 1x PBS. Washed 3x. Exposed to ECL HRP.

substitute 40. I minute. Exposed yilm.

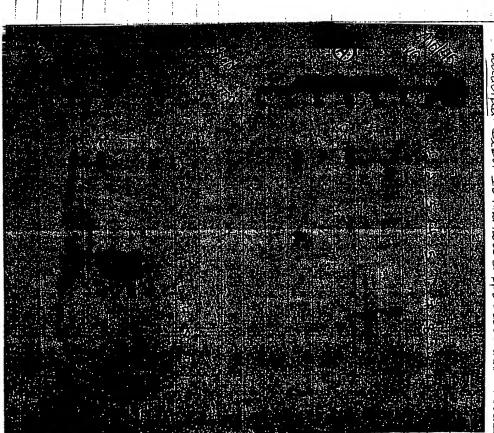
attached: Coomassie stained-gel.

Western Blat + Comassel Itel of Lysates

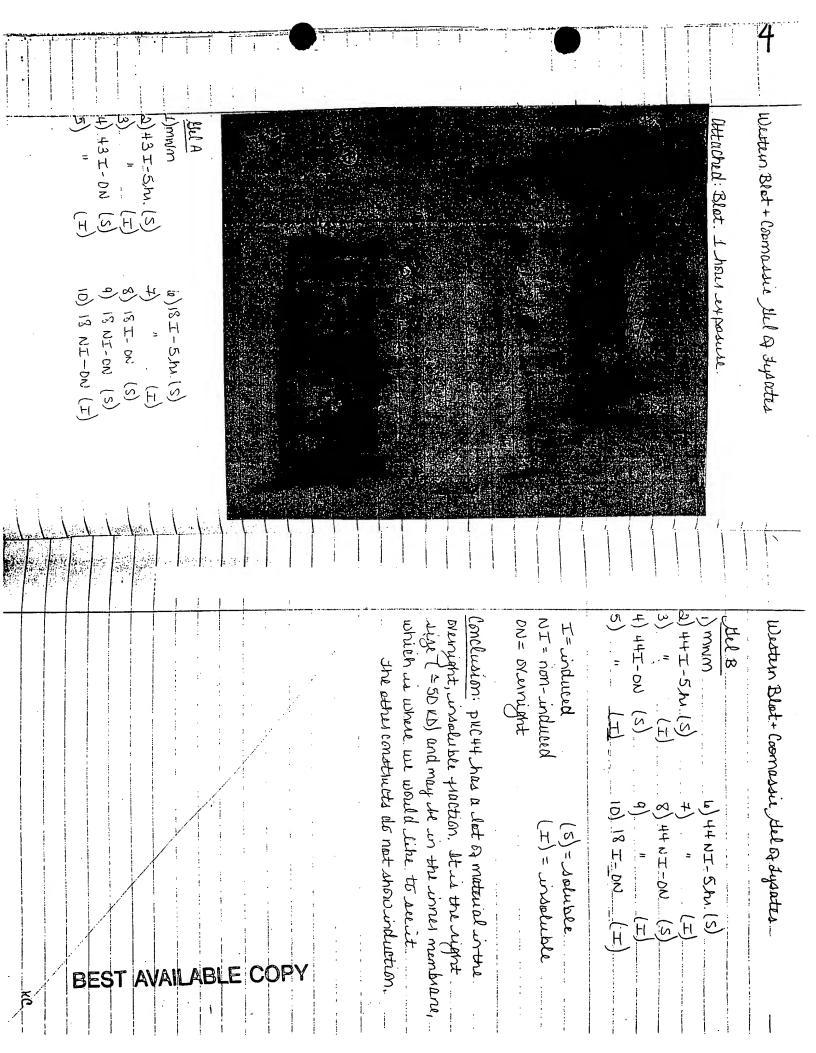
attached: Commosue there-stained gel



attached: Blet. 10 minute exposure.



BEST AVAILABLE COPY



			Charles a same of the same of			and the same of th		
								5
Depun To soluble quartien, added CNBr2-41/58.2 nean (are pages 72-3) and let work overnight  @ 4°C.	Got solubilize @4°C with shaking / socking for 2 4 1/2 round.	Jo the 150 ml of Juffer, added 3 tablets of "Complete" (protease inhibiter from Boetringer manneheim). Let dissolve completely.  Dresuspended cell paste in Juffer. Passed through	3000ml = x x=516ml x30.7 ab/ml = 1308 as.368 15,841.2 as = 105 6 as/ml	E3 liters of culture = 130 grams of cell paste  OD = 30.7   ml  ob divided to resuppord paste in 150 ml	(Buffer = 50mm true, 150mm Nace, 0.5% NP+0)	grom of supschen. Jut= 0= 758:91, furments facts 9/13/95,	Objective: Want to try printy column.	Puniqueation of SCIER maing of 1/2 8.2
BEST AVAILABLE COPY	Conclusion: scTCR prep. (let#5) prepared	@ Pooled sample from four tules to two twees and unded membranes. Washed Ix  @ Pooled sample from two tules to 1 tule. Rinsed	Detators. Aprin 30 ministra @ maximum speed @ 4°C. Wash = add 300 ml super super (R50) + 0.1% NO40 and spin as above. Washed 3x.	neutralized each fraction with soone sometime, pH8.D.  Before fraction & among your microcon-100 concer-	€ Eluted two ynactions:  Yraction # 1 = Inlet D. Im flycine + D. I % NP40  ynaction # 5 = Inlet ", pH 3.0	Dealed resin together in I ture and washed ix with more starper. Iranspersed resin to column and washed ix with more suffer.	@ 800 spins yo a minutes to pull down resion.  david supe as "ylow-tru"	Punification of SCTCR

Cosmassie, Hel of Furified SCTCR Lat#5

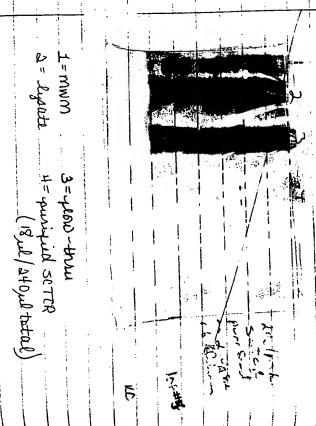
Ebjective: For look @ the purified SCTCR.

This Lot was purified with the d-V58.2 Ab.

Method: I dame as on page 74 sut did not

men a western slot.

arteched Comassic stained get

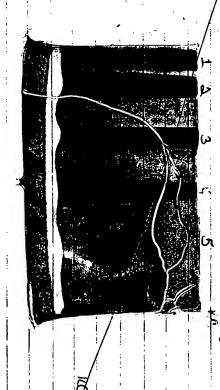


Western Blat + Commusie Helof SCTCR ( lat #6)

This let was pursued with both the x-1/38.2 and x-4/3TCR Ab columns combined.

muthod: Aware as on page 74.

attached Comassie stained gel



1= mwm

+= wash#1

2= Juno-thru

Conclusion: Can see puriqued SCTER Land!

5 - purispud SCTCR

Conclusion: Purished SCTCR Months good!

BEST AVAILABLE COPY

纟